

HYBRID MICROTURBINE FOR GENERATION ELECTRICITY

ABSTRACT OF THE DISCLOSURE

5 A hybrid microturbine to produce electrical output power within a
engine housing having, a combustor, and a two spool multi stage
compressor wherein the 1st spool has a compressor rotor and a turbine
rotor as a turbocharger and the 2nd rotor spool has an alternator rotor
integrated with a compressor rotor and turbine rotor. The two individual
compressor rotors have rotating blades attached and located in compressor
10 housings with fluid communication. The alternator rotor as part of the 2nd
spool has permanent magnets integrated and positioned in close
proximity and co-axial to the electrical stator module having an iron
laminated structure with electrical wires. Relative rotational motion
between the stator and alternator rotor cause electricity to be generated.